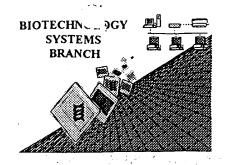
T. Prastholer

## **RAW SEQUENCE LISTING** ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/429, 798

Source:

Date Processed by STIC:

1627

RECEIVE

TECH CENTER 1600/2900

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS. PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,

2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER. 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

## Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2Kcompliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

( frozhio).

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MAY 0 1 2001 1627

**TECH CENTER 1600/2900** 

RAW SEQUENCE LISTING DATE: 04/17/2001 PATENT APPLICATION: US/09/429,798 TIME: 13:01:22

Input Set : A:\9233-8DV1.txt

Output Set: N:\CRF3\04172001\1429798.raw

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3 <110> APPLICANT: Ekwuribe, Nnochiri
        Radhakrishnan, Balasingam
         Price, Christopher
 6
         Anderson, Wesley
7
         Ansari, Aslam
9 <120> TITLE OF INVENTION: BLOOD-BRAIN BARRIER THERAPEUTICS
11 <130> FILE REFERENCE: 9233.8DV1
13 <140> CURRENT APPLICATION NUMBER: 09/429,798
14 <141> CURRENT FILING DATE: 1999-10-29
16 <150> PRIOR APPLICATION NUMBER: 09/134,803
17 <151> PRIOR FILING DATE: 1998-08-14
19 <160> NUMBER OF SEQ ID NOS: 52
21 <170> SOFTWARE: PatentIn version 3.0
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 6
25 <212> TYPE: PRT
26 <213> ORGANISM: synthetic construct
28 <220> FEATURE:
29 <221> NAME/KEY: MOD_RES
30 <222> LOCATION: (6)..(6)
31 <223> OTHER INFORMATION: Polymer connected to epsilon-amino group
34 <400> SEQUENCE: 1
36 Tyr Gly Gly Phe Met Lys
37 1
39 <210> SEQ ID NO: 2
40 <211> LENGTH: 6
41 <212> TYPE: PRT
42 <213> ORGANISM: synthetic construct
44 <220> FEATURE:
45 <221> NAME/KEY: MOD_RES
46 <222> LOCATION: (1)..(1)
47 <223> OTHER INFORMATION: Polymer connected to alpha-amino group
50 <220> FEATURE:
51 <221> NAME/KEY: MOD_RES
52 <222> LOCATION: (6)..(6)
53 <223> OTHER INFORMATION: Polymer connected to epsilon-amino group
56 <400> SEQUENCE: 2
58 Tyr Gly Gly Phe Met Lys
59 1
61 <210> SEQ ID NO: 3
62 <211> LENGTH: 6
63 <212> TYPE: PRT
64 <213> ORGANISM: synthetic construct
66 <220> FEATURE:
67 <221> NAME/KEY: MOD_RES
68 <222> LOCATION: (1)..(1)
69 <223> OTHER INFORMATION: Polymer connected to alpha-amino group
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Does Not Comply
Corrected Diskette Needed

see p.5

Output Set: N:\CRF3\04172001\I429798.raw 72 <400> SEQUENCE: 3 74 Tyr Gly Gly Phe Met Lys 75 1 77 <210> SEQ ID NO: 4 78 <211> LENGTH: 6 79 <212> TYPE: PRT 80 <213> ORGANISM: synthetic construct 82 <220> FEATURE: 83 <221> NAME/KEY: MOD\_RES 84 <222> LOCATION: (1)..(1) 85 <223> OTHER INFORMATION: ACETYLATION 88 <220> FEATURE: 89 <221> NAME/KEY: MOD\_RES 90 <222> LOCATION: (6)..(6) 91 <223> OTHER INFORMATION: AMIDATION 94 <400> SEQUENCE: 4 96 Phe Arg Trp Trp Tyr Lys 99 <210> SEQ ID NO: 5 100 <211> LENGTH: 6 101 <212> TYPE: PRT 102 <213> ORGANISM: synthetic construct 104 <220> FEATURE: 105 <221> NAME/KEY: MOD\_RES 106 <222> LOCATION: (1)..(1) 107 <223> OTHER INFORMATION: ACETYLATION 110 <220> FEATURE: 111 <221> NAME/KEY: MOD\_RES 112 <222> LOCATION: (6)..(6) 113 <223> OTHER INFORMATION: AMIDATION 116 <400> SEQUENCE: 5 118 Arg Trp Ile Gly Trp Lys 119 1 121 <210> SEQ ID NO: 6 122 <211> LENGTH: 6 123 <212> TYPE: PRT 124 <213> ORGANISM: synthetic construct 126 <220> FEATURE: 127 <221> NAME/KEY: MOD\_RES 128 <222> LOCATION: (6)..(6) 129 <223> OTHER INFORMATION: AMIDATION 132 <220> FEATURE: 133 <221> NAME/KEY: UNSURE 134 <222> LOCATION: (6)..(6)/ 135 <223> OTHER INFORMATION: Xaa can be any of the twenty naturally occurring amino acids 138 <400> SEQUENCE: 6 W--> 140 Trp Trp Pro Lys His Xaa 141 1 143 <210> SEQ ID NO: 7

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/429,798

Input Set : A:\9233-8DV1.txt

DATE: 04/17/2001

TIME: 13:01:22

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RAW SEQUENCE LISTING
                                                                DATE: 04/17/2001
                       PATENT APPLICATION: US/09/429,798
                                                                TIME: 13:01:22
                       Input Set : A:\9233-8DV1.txt
                       Output Set: N:\CRF3\04172001\I429798.raw
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       145 <212> TYPE: PRT
      146 <213> ORGANISM: synthetic construct
      148 <220> FEATURE:
      149 <221> NAME/KEY: MOD_RES
      150 <222> LOCATION: (4)..(4)
      151 <223> OTHER INFORMATION: AMIDATION
      154 <220> FEATURE:
      155 <221> NAME/KEY: UNSURE
      156 <222> LOCATION: (4)..(4)
      157 <223> OTHER INFORMATION: Xaa is either Lys or Arg
      160 <400> SEQUENCE: 7
 W--> 162 Trp Trp Pro Xaá
      163 1
      165 <210> SEQ ID NO: 8
      166 <211> LENGTH: 6
     167 <212> TYPE: PRT
     168 <213> ORGANISM: synthetic construct
     170 <220> FEATURE:
     171 <221> NAME/KEY: MOD_RES
     172 <222> LOCATION: (6)..(6)
     173 <223> OTHER INFORMATION: AMIDATION
     176 <220> FEATURE:
     177 <221> NAME/KEY: UNSURE
     178 <222> LOCATION: (6)..(6),
     179 <223> OTHER INFORMATION: Xaa can be any one of the naturally occurring amino acids
W--> 184 Tyr Pro Phe Gly Phe Xaa
     185 1
     187 <210> SEQ ID NO: 9
    188 <211> LENGTH: 7
    189 <212> TYPE: PRT
    190 <213> ORGANISM: synthetic construct
    192 <220> FEATURE:
    193 <221> NAME/KEY: MOD_RES
    194 <222> LOCATION: (1)..(5)
    195 <223> OTHER INFORMATION: Amino acids are in the D-form
    198 <220> FEATURE:
    199 <221> NAME/KEY: MOD_RES
    200 <222> LOCATION: (6)..(6)
    201 <223> OTHER INFORMATION: n is 0 or 1
    204 <220> FEATURE:
   205 <221> NAME/KEY: MOD_RES
   206 <222> LOCATION: (7)..(7)
   207 <223> OTHER INFORMATION: Xaa is Gly or the D-form of a naturally occurring amino acid
   211 <221> NAME/KEY: MOD_RES
   212 <222> LOCATION: (7)..(7)
   213 <223> OTHER INFORMATION: AMIDATION
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Input Set : A:\9233-8DV1.txt
                      Output Set: N:\CRF3\04172001\I429798.raw
     216 <400> SEQUENCE: 9
W--> 218 Ile Met Ser Trp Trp Gly Xa'a
     219 1
     221 <210> SEQ ID NO: 10
     222 <211> LENGTH: 6
     223 <212> TYPE: PRT
     224 <213> ORGANISM: synthetic construct
     226 <220> FEATURE:
     227 <221> NAME/KEY: MOD_RES
     228 <222> LOCATION: (1)..(4)
     229 <223> OTHER INFORMATION: Amino acids are in the D-form
     232 <220> FEATURE:
     233 <221> NAME/KEY: MOD_RES
     234 <222> LOCATION: (6)..(6)
     235 <223> OTHER INFORMATION: Xaa is Gly or the D-form of a naturally-occurring amino acid
     238 <220> FEATURE:
     239 <221> NAME/KEY: MOD_RES
     240 <222> LOCATION: (6)..(6)
     241 <223> OTHER INFORMATION: AMIDATION
     244 <400> SEQUENCE: 10
W--> 246 Ile Met Thr Trp Gly Xaa
     247 1
     249 <210> SEQ ID NO: 11
     250 <211> LENGTH: 4
     251 <212> TYPE: PRT
     252 <213> ORGANISM: synthetic construct
     254 <220> FEATURE:
     255 <221> NAME/KEY: MOD_RES
     256 <222> LOCATION: (2)..(2)
     257 <223> OTHER INFORMATION: Xaa is A1, wherein A1 is the D-form of Nve or Nle
     260 <220> FEATURE:
     261 <221> NAME/KEY: MOD_RES
     262 <222> LOCATION: (3)..(3)
     263 <223> OTHER INFORMATION: Xaa is B2, wherein B2 is Gly, Phe, or Trp
     266 <220> FEATURE:
     267 <221> NAME/KEY: MOD_RES
     268 <222> LOCATION: (4)..(4)
     269 <223> OTHER INFORMATION: Xaa is C3, wherein C3 is Trp or Nap
     272 <220> FEATURE:
     273 <221> NAME/KEY: MOD_RES
     274 <222> LOCATION: (4)..(4)
     275 <223> OTHER INFORMATION: AMIDATION
     278 <400>, SEQUENCE; 11
W--> 280 Tyr Xaa Xaá Xaá
     281 1
    283 <210> SEQ ID NO: 12
    284 <211> LENGTH: 3
    285 <212> TYPE: PRT
    286 <213> ORGANISM: synthetic construct
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DATE: 04/17/2001

TIME: 13:01:22

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/429,798

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Input Set : A:\9233-8DV1.txt
                       Output Set: N:\CRF3\04172001\1429798.raw
      288 <220> FEATURE:
      289 <221> NAME/KEY: MOD_RES
      290 <222> LOCATION: (1)..(1)
      291 <223> OTHER INFORMATION: Tyr has at its N-terminus an Me-x-H-y-N group, wherein x is 0, 1,
                or 2; and y is 0, 1, or 2, with the proviso that x and y is neve r greater than ? incomplete explaination.
      296 <220> FEATURE:
      297 <221> NAME/KEY: MOD_RES
      298 <222> LOCATION: (1)..(2)
      299 <223> OTHER INFORMATION: The amine between the first Tyr and the second Tyr is methylated
      303 <220> FEATURE:
      304 <221> NAME/KEY: MOD_RES
      305 <222> LOCATION: (3)..(3)
      306 <223> OTHER INFORMATION: Xaa is Xaa-z, wherein Xaa is Phe, (D)Phe, or NHBzl, and wherein z
               is 0 or
                                  ? incomplete explaination
      310 <220> FEATURE:
      311 <221> NAME/KEY: MOD_RES
      312 <222> LOCATION: (3)..(3)
      313 <223> OTHER INFORMATION: AMIDATION
      316 <400> SEQUENCE: 12
W--> 318 Tyr Tyr Xaa
      319 1
      321 <210> SEQ ID NO: 13
      322 <211> LENGTH: 6
     323 <212> TYPE: PRT
     324 <213> ORGANISM: synthetic construct
     326 <220> FEATURE:
     327 <221> NAME/KEY: MOD_RES
     328 <222> LOCATION: (4)..(4)
     329 <223> OTHER INFORMATION: Xaa is D4, wherein D4 is Lys or Arg
     332 <220> FEATURE:
     333 <221> NAME/KEY: MOD_RES
     334 <222> LOCATION: (5)..(5)
     335 <223> OTHER INFORMATION: His is His-z, wherein z is 0 or 1
     338 <220> FEATURE:
     339 <221> NAME/KEY: MOD_RES
     340 <222> LOCATION: (6)..(6)
     341 <223> OTHER INFORMATION: Xaa is Xaa-z, wherein Xaa is a naturally occurring amino acid and
               z is 0 or
                                   ? incomplete explaination
     345 <220> FEATURE:
     346 <221> NAME/KEY: MOD_RES
     347 <222> LOCATION: (6)..(6)
     348 <223> OTHER INFORMATION: AMIDATION
     351 <400> SEQUENCE: 13
W--> 353 Trp Trp Pro Xáa His Xaa
     356 <210> SEQ ID NO: 14
     357 <211> LENGTH: 4
     358 <212> TYPE: PRT
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DATE: 04/17/2001

TIME: 13:01:22

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/429,798

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223≥ fields of each sequence which presents at least one n or Xaa.